

2A01G - 2A07G

2.0 AMPS. Glass Passivated Rectifiers

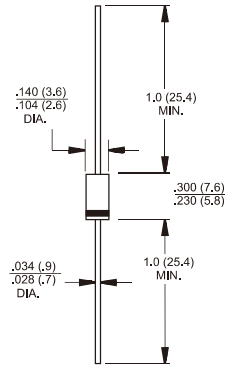
DO-15

Features

- ◇ Glass passivated chip junction.
- ◇ High efficiency, Low VF
- ◇ High current capability
- ◇ High reliability
- ◇ High surge current capability
- ◇ Low power loss
- ◇ Green compound with suffix "G" on packing code & prefix "G" on datecode.

Mechanical Data

- ◇ Cases: Molded plastic
- ◇ Epoxy: UL 94V-0 rate flame retardant
- ◇ Lead: Pure tin plated, lead free., solderable per MIL-STD-202, Method 208 guaranteed
- ◇ Polarity: Color band denotes cathode
- ◇ High temperature soldering guaranteed: 260 °C /10 seconds/.375", (9.5mm) lead lengths at 5 lbs., (2.3kg) tension
- ◇ Weight: 0.40 grams



Dimensions in inches and (millimeters)

Marking Diagram



2A0XG = Specific Device Code
G = Green Compound
Y = Year
WW = Work Week

Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load derate current by 20%

Type Number	Symbol	2A 01G	2A 02G	2A 03G	2A 04G	2A 05G	2A 06G	2A 07G	Units
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length @TA = 60 °C	IF(AV)	2.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	70							A
Maximum Instantaneous Forward Voltage@1.5A	VF	1.1		1.0					V
Maximum DC Reverse Current at @ TA=25 °C Rated DC Blocking Voltage (Note 1)@ TA=125 °C	IR	5.0 100					uA uA		
Typical Junction Capacitance (Note 2)	Cj	15					pF		
Typical Thermal Resistance (Note 3)	RθJA RθJL RθJC	60 25 22					°C/W		
Operating Temperature Range	TJ	- 65 to + 150							°C
Storage Temperature Range	TSTG	- 65 to + 150							°C

- Notes: 1. Pulse Test with PW=300 usec, 1% Duty Cycle
2. Mount on Cu-Pad Size 10mm x 10mm on P.C.B.
3. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.

RATINGS AND CHARACTERISTIC CURVES (2A01G THRU 2A07G)

FIG.1 Maximum Forward Current Derating

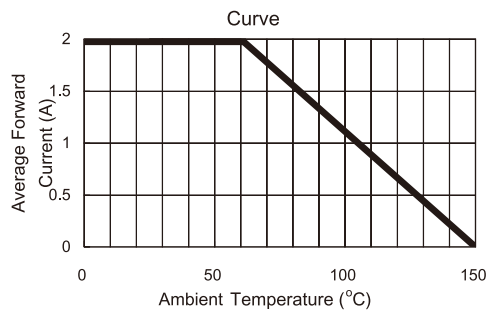


FIG 2 Maximum Forward Surge Current

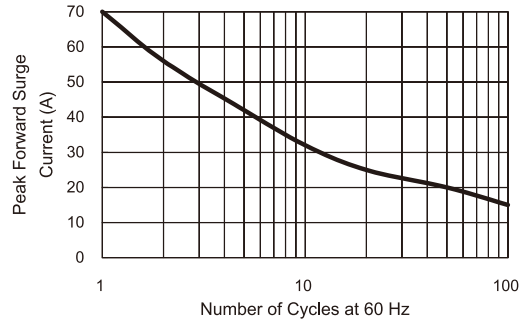


FIG 3 Typical Forward Characteristics

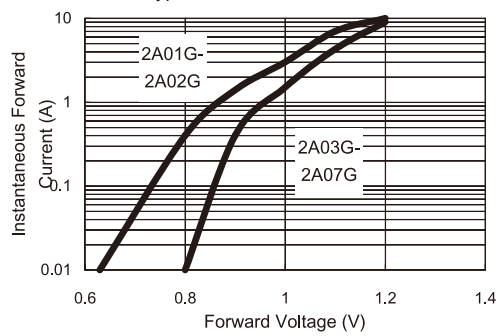


FIG 4 Maximum reverse leakage character

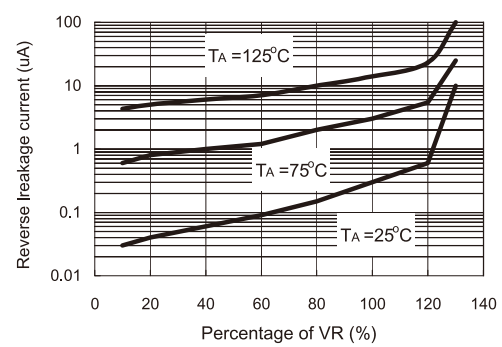


FIG 5 Typical Junction Capacitance

